

WIRELESS KIT INSTALLATION MANUAL

⚠ WARNING

- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**

Loose connections or hold could result in abnormal heat generation or fire.



- **Turn off the power source during servicing or inspection work.**

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.



- **Shut off the power before electrical wiring work.**

It could cause electric shock, unit failure and improper running.



⚠ CAUTION

- **DO NOT install it in the following places.**

- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places directly exposed to oil mist or steam

- (6) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.

- (7) Places where the receiver is affected by infrared rays of any other communication devices

- (8) Places where some object may obstruct the communication with the remote controller



- **DO NOT leave the wireless kit without the cover.**

In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust.

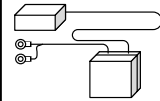
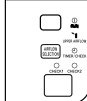







Attention

- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air conditioner itself, refer to the installation manual enclosed in the package.

① Accessories

Please make sure that you have all of the following accessories.

Control ASSY	Display label	Screw for display	Wireless remote controller	AAA dry cell battery (RO3)	Remote controller holder	Wood screw for holder
						
1	1	2	1	2	1	2

② Preparation before installation

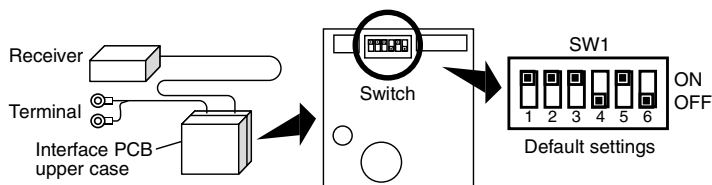
Setting on site

The interface PCB has the following switches to set the function.
Default setting is shown with ☐ mark.

SW1-1	Prevents interference during plural setting	ON : Normal (1ch) OFF : Customized (2ch)
SW1-2	Receiver master/slave setting	ON : Master OFF : Slave
SW1-3	Buzzer valid/invalid	ON : Valid OFF : Invalid
SW1-4	Auto restart	ON : Valid OFF : Invalid
SW1-5	Indication for error	ON : Valid OFF : Invalid
SW1-6	Not in use	ON : --- OFF : ---

To change setting

1. Remove the upper case of the interface PCB assy.
2. Change the switch setting on PCB.



NOTE

When SW1-1 is turned to off position, change the wireless remote controller setting.

For the method of changing the setting, refer to **Setting to avoid mixed communication** on page 372.

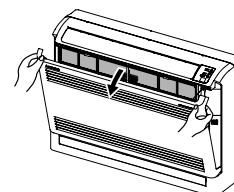
③ How to install the control assy

The control assy (Receiver and Interface PCB assy) can be installed inside the indoor unit. After turning off the power and confirming safety, execute as follows.

① Remove Inlet panel

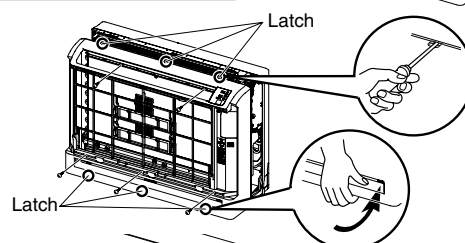
- Pull the inlet panel towards you at the upper side of both sides, and detach the latches.
- Remove the retainer string from the front panel.
- Remove the inlet panel.

CAUTION
When removing the inlet panel, be careful not to drop it on your feet.



② Remove Front panel

- Remove the fixing screw. (5 pieces)
- Detach the latches at the upper side of the front panel. (3 places)
If difficult to remove the latch, detach the latch portion by using straight screw driver, for example.
- Move the lower part of the front panel towards you.
- Detach the latches at the lower side of the front panel. (6 places)

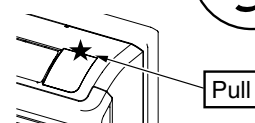


③ Remove Display label and stick on Display label

- Peel off the original display label, on the upper side. (★ Mark)
Press the back side of label, then the label floats.
- Stick the attached display label on the same location.

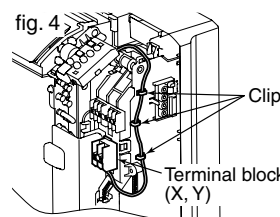
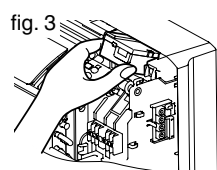
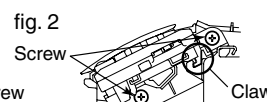
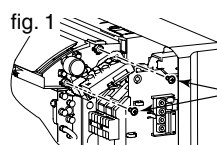
CAUTION MUST change the display label.

If the display label is not changed, the receiver can not receive the signal from the remote controller.



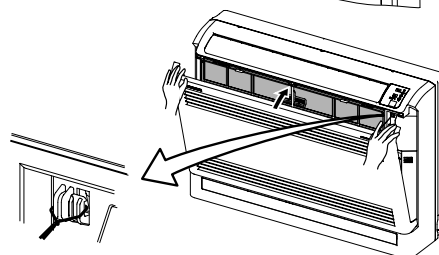
④ Install Control assy

- Fix the receiver on the indoor unit, by the attached screw. (2 pieces, refer to figure 1)
Make sure that the claw of the receiver hungs on the claw of the indoor unit control box. (Refer to figure 2)
- Put the interface PCB assy on the indoor unit control box. Put the interface PCB assy securely in the innermost location, when installing the front panel. (Refer to figure 3)
- Fix the wiring on indoor unit control box by the clips. (3 places, refer to figure 4)
- Fix the terminal of the wiring assy (for X, Y) on the lower side terminal block of the indoor unit. (Non-polarity)



⑤ Put back Front panel

- Place the front panel over the indoor unit.
- Hang the latches on the lower side of the front panel. (6 places)
- Hang the latches on the upper side of the front panel. (3 places)
- Tighten the fixing screw. (5 pieces)



⑥ Put back Inlet panel

- Put the lower side of the inlet panel on the front panel.
- Hang the retainer string on the claw of the front panel.
- Snap the latch of the inlet panel upper side into the front panel.

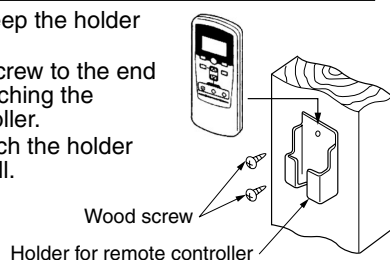
④ How to install the wireless remote controller

CAUTION DO NOT install it in the following places.

- Places exposed to direct sunlight
- Hot surface or cold surface enough to generate condensation
- Places near heat devices
- Places directly exposed to oil mist or steam
- High humidity places
- Uneven surface

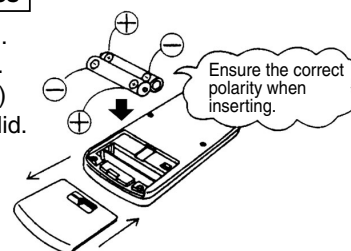
Installation tips for the remote controller holder

- Adjust and keep the holder up right.
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall.



How to insert batteries

- Detach the back lid.
- Insert the batteries. (two AAA batteries)
- Reattach the back lid.



⑤ Function setting of interface PCB and wireless remote controller

Master/Slave setting when using plural remote controllers

Up to two wireless kit or wired remote controller can be installed in one indoor unit group.

When two wireless kit or wired remote controller are used, it is necessary to change setting on the PCB to slave.

Switch	Setting	Contents
Wired remote controller: SW1	Master	Master remote controller
Wireless kit: SW1-2	Slave	Slave remote controller

Setting to avoid mixed communication

In case of plural setting, check the operation distance of wireless remote controller, and avoid mixed communication.

Refer to **⑦ Wireless remote controller operation distance** on page 373 about the operation distance.

It is necessary to change setting of interface PCB and wireless remote controller.

(1) Interface PCB

Set SW1-1 to "OFF" position.

(2) Wireless remote controller

Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Setting to disable the Auto mode operation

VRF system (except heat recovery 3-pipe system) cannot be operated in Auto mode. Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

Pressing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

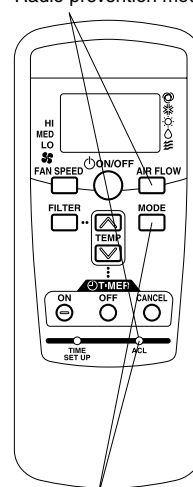
ATTENTION

When the batteries are removed, the setting will return to the default setting. Please make sure to reset it when the batteries are replaced.

CAUTION

Instruct the customer to set the mentioned above when replacing the batteries. (How to set is also mentioned in the user's manual attached on the air conditioner.)

Radio prevention mode



Auto mode operation setting

⑥ Wiring

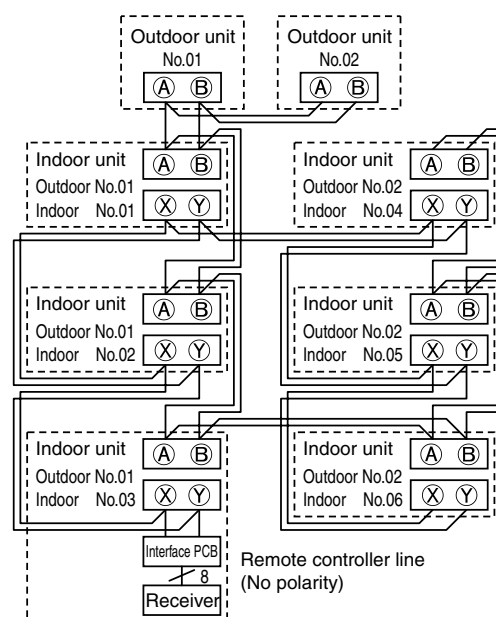
Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

- Connect indoor units with each other with 2-core wires. As for size, refer to the following note.
- The receiver wires must be connected only with the indoor unit that will be operated by the remote controller directly.
- Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3mm ²
	Within 200m x 0.5mm ²
	Within 300m x 0.75mm ²
	Within 400m x 1.25mm ²
	Within 600m x 2.0mm ²

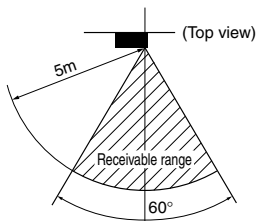
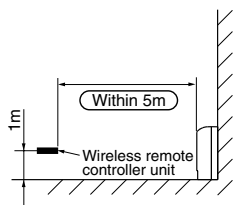


⑦ Wireless remote controller operation distance

① Standard signal receiving range

[Condition]

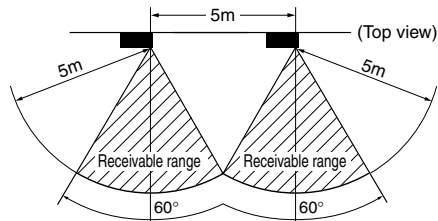
Illuminance at the receiver area: 360 lux. (When no lighting fixture is located within 1m of indoor unit in an ordinary office)



② Points for attention in connecting a plural number of indoor units

[Condition]

Illuminance at the receiver area: 360 lux.

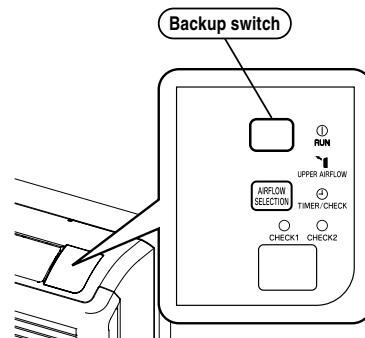


⑧ Trial operation

Backup switch

The backup switch is provided on the display label. It is possible to use the backup switch as shown in the figure right. When operation from the wireless remote controller is not possible (due to flat batteries, a mislaid unit, a unit failure), the backup switch can be used as an emergency means. The backup switch is operated manually.

- (1) If pressed while the air conditioner is in a halt, it will cause the air conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).
Fan speed: Hi fan, Temperature setting: 23°C, Louver: horizontal
- (2) If pressed while the air conditioner is in operation, it will stop the air conditioner.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote controller, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If the air conditioner can not operate properly during the test run, check wiring according to the trouble shooting guides.

NOTE

1. After over 2 minutes from power on, operate the wireless remote controller.
The operation is invalid during 2 minutes from power on.
2. Check indicator lamp "check1" / "check2" shows error code.
The number of blinking shows the error code number of tens/ones place and check1/check2 corresponds to tens/ones place.

How to select air flow

AIR SELECTION button can switch the air supply.

- (1) Stop the air conditioner.
- (2) Select the airflow from AIR SELECTION button on the unit display.
 - ① In case of selecting to upper airflow.
Press the AIRFLOW SELECTION button once.
UPPER AIRFLOW LED will light for ten seconds.
 - ② In case of selecting to upper and lower airflow.
When UPPER AIRFLOW LED is lit by pressing AIRFLOW SELECTION button, press AIRFLOW SELECTION button once again.
UPPER AIRFLOW LED will turn off.

